

THE CLAIMS

What is claimed is:

1. A golf ball comprising a core, a water vapor barrier layer and a cover, wherein the
5 water vapor barrier layer has a moisture vapor transmission rate that is lower than that of the cover and the water vapor barrier layer comprises a terpolymer of ethylene, a softening acrylate class ester such as methyl acrylate, n-butyl-acrylate or iso-butyl-acrylate, and a carboxylic acid such as acrylic acid or methacrylic acid.
- 10 2. The golf ball set forth in claim 1, wherein the terpolymer is a terpolymer of ethylene, methyl acrylate and acrylic acid.
- 15 3. The golf ball as set forth in claim 1, wherein the acid level by weight in the terpolymer is in the range of about 3 % to about 25%.
- 20 4. The golf ball as set forth in claim 3, wherein the acid level by weight in the terpolymer is in the range of about 4 % to about 15%.
5. The golf ball as set forth in claim 4, wherein the acid level by weight in the
terpolymer is in the range of about 7 % to about 11%.
- 25 6. The golf ball set forth in claim 1, wherein the terpolymer has a melt flow index in the range between about 1gram/10 minutes to about 500 grams/10 minutes.
7. The golf ball set forth in claim 6, wherein the melt flow index of the terpolymer is in
the range of about 3 grams/10 minutes to about 60 grams/10 minutes.
- 30 8. The golf ball set forth in claim 7, wherein the melt flow index of the terpolymer is in
the range of about 3 grams/10 minutes to about 35 grams/10 minutes.

9. The golf ball set forth in claim 8, wherein the melt flow index of the copolymer of ethylene and methacrylic acid is in the range of about 5 grams/10 minutes to about 25 grams/10 minutes.

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